






SYMBOLGY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM			
CHANGE PROPOSAL NUMBER		MIL98-05A	
ORIGINATOR	SPONSOR	DATE RECEIVED	DATE OF ACTION
ACC/DRU	USAF	1 DEC 1998	18 April 2000
CHANGE PROPOSAL TITLE			
MULTIPLE UAV PLATFORM SYMBOLS			
SUGGESTED CHANGE			
<p>The symbols that represent UAVs, drones, and RPVs should differentiate between platforms. Change the description of 1.X.2.1.1.16 to UAV.</p> <p>Knowledge of the specific mission/function of a UAV is critical for C2 decision-makers in apportioning the correct resource on the right target equals bombs on targets.</p> <div style="text-align: center;"> <p>Existing Symbol for Drone (RPV/UAV), Number 1.X.2.1.1.16. Maintain as generic class symbol.</p>  <p>Recommended symbol for UAV (Attack), Number 1.X.2.1.1.16.1</p> <p>A</p>  <p>Recommended symbol for UAV (ISR), Number 1.X.2.1.1.16.2</p> <p>R</p>  <p>Recommended symbol for UAV (Comm), Number 1.X.2.1.1.16.3</p> <p>C</p>  <p>Recommended symbol for UAV (Drone), Number 1.X.2.1.1.16.4</p> <p>D</p>  </div>			
JIEO ANALYSIS			
<p>OVERVIEW:</p> <p>CP MIL 98-05 proposed the addition of several new designations for the Drone (RPV/UAV) symbol. The addition of these symbol designations highlights the need for an examination of all possible missions/functions that may be performed by RPV/UAVs. Examining the four proposed designations, "A" (for Attack) is a proper addition and corresponds to existing symbology configurations. The second addition, "R" (Reconnaissance), is also a proper addition, though it does have other more specific options available to it. The designator "C" (intended to denote Communications) should</p>			

be changed to "Y" (Communications (C3I)), in order to correspond to the designator used by other symbols within the Air Set. The final designator, "D", which is used in other symbols to describe a different mission/function (Airborne Command Post) should be dropped. As termed in the suggested change, a "drone" is the same as the existing generic symbol and the description given for it in table D-I for 1.X.2.1.1.16. Additionally, the term "platform" seems to describe the mission or function of the Drone, not the actual vehicle itself. The second sentence of the Suggested Change indicates a desire to change the symbol definition from "Drone" to "UAV". Recommend maintaining the definition as-is to avoid confusion, since the meanings of Drone, UAV, and RPV are nearly identical. Recommend that the below listed hierarchy, descriptions, and symbol ID codes be considered for inclusion in this change.

HIERARCHY	DESCRIPTION	SYMBOL ID
1.X.2.1.1.16.1	ATTACK	A
1.X.2.1.1.16.2	BOMBER	B
1.X.2.1.1.16.3	CARGO	C
1.X.2.1.1.16.4	AIRBORNE COMMAND POST	D
1.X.2.1.1.16.5	FIGHTER	F
1.X.2.1.1.16.6	SEARCH & RESCUE (CSAR)	H
1.X.2.1.1.16.7	ELECTRONIC COUNTERMEASURES (JAMMER)	J
1.X.2.1.1.16.8	TANKER	K
1.X.2.1.1.16.9	VSTOL	L
1.X.2.1.1.16.10	SPECIAL OPERATIONS FORCES (SOF)	SOF
1.X.2.1.1.16.11	MINE COUNTERMEASURES	MCM
1.X.2.1.1.16.12	ANTI-SURFACE WARFARE (ASUW)	N
1.X.2.1.1.16.13	PATROL	P
1.X.2.1.1.16.14	RECONNAISSANCE	R
1.X.2.1.1.16.14.1	AIRBORNE EARLY WARNING (AEW)	W
1.X.2.1.1.16.14.2	ELECTRONIC SURVEILLANCE MEASURES	Z
1.X.2.1.1.16.14.3	PHOTOGRAPHIC	X
1.X.2.1.1.16.15	ANTI-SUBMARINE WARFARE (ASW)	S
1.X.2.1.1.16.16	TRAINER	T
1.X.2.1.1.16.17	UTILITY	U
1.X.2.1.1.16.18	COMMUNICATIONS (C3I)	Y
1.X.2.1.1.16.19	MEDEVAC	+

The following changes must be made to the standard to incorporate the proposed changes:

1. Revise Appendix A, Table A-V, C2 Symbology: UEI symbol ID codes - air to include the necessary information for the additional Drone (RPV/UAV) symbols.
2. Revise Appendix A, Figure A-4, Air Track (Military fixed wing) to include the necessary information for all Drone (RPV/UAV) missions/functions.
3. Revise Appendix A, Table A-XII, C2 Symbology: UEI set - air to include four versions for all additional Drone (RPV/UAV) missions/functions to depict the unknown, friend, neutral, and enemy affiliations.



POTENTIAL CONFLICTS WITH EXISTING SYMBOLOGY:

Following the above listed methodology avoids any conflicts with existing symbology.

CONFORMANCE TO SYMBOL GUIDELINES:

The addition of symbol designators to the existing RPV/UAV symbol conforms completely with the rules set forth regarding the composition, construction, and display of tactical symbols. The new symbol ID codes and hierarchy numbers also conform to the rules concerning their generation.

ADEQUACY AND IMPACT ON OTHER PROGRAMS:

None Known.









C/S/A COMMENTS

ACTION TAKEN













At the 18 April 2000 SSMC, the members reviewed the CP. The comments from the JIEO analysis were modified by changing the symbol ID for Hierarchy 1.X.2.1.1.16.10, Special Operations Forces (SOF), from "M" to "SOF". The modified JIEO comments were accepted and the CP was approved as modified (CP98-005A). The CP will be incorporated into the next revision of MIL-STD-2525.

**Attachment
MIL98-05 ID Codes**



HIERARCHY	C O D E S C H E M E	A F F I L I A T I O N	B A T T L E D I M E N S I O N	S T A T U S	F U N C T I O N I D	S I Z E / M O B I L I T Y	C O U N T R Y C O D E	O R D E R O F B A T T L E	DESCRIPTION
1.X.2.1.1.16.1	S	*	A	*	MF QA --	**	**	*	ATTACK
1.X.2.1.1.16.2	S	*	A	*	MF QB --	**	**	*	BOMBER
1.X.2.1.1.16.3	S	*	A	*	MF QC --	**	**	*	CARGO
1.X.2.1.1.16.4	S	*	A	*	MF QD --	**	**	*	AIRBORNE COMMAND POST
1.X.2.1.1.16.5	S	*	A	*	MF QF --	**	**	*	FIGHTER
1.X.2.1.1.16.6	S	*	A	*	MF QH --	**	**	*	SEARCH & RESCUE (CSAR)
1.X.2.1.1.16.7	S	*	A	*	MF QJ --	**	**	*	ELECTRONIC COUNTERMEASURES (JAMMER)
1.X.2.1.1.16.8	S	*	A	*	MF QK --	**	**	*	TANKER
1.X.2.1.1.16.9	S	*	A	*	MF QL --	**	**	*	VSTOL
1.X.2.1.1.16.10	S	*	A	*	MF QM --	**	**	*	SPECIAL OPERATIONS FORCES (SOF)
1.X.2.1.1.16.11	S	*	A	*	MF QI --	**	**	*	MINE COUNTERMEASURES
1.X.2.1.1.16.12	S	*	A	*	MF QN --	**	**	*	ANTI-SURFACE WARFARE (ASUW)
1.X.2.1.1.16.13	S	*	A	*	MF QP --	**	**	*	PATROL
1.X.2.1.1.16.14	S	*	A	*	MF QR --	**	**	*	RECONNAISSANCE
1.X.2.1.1.16.14.1	S	*	A	*	MF QR W-	**	**	*	AIRBORNE EARLY WARNING (AEW)
1.X.2.1.1.16.14.2	S	*	A	*	MF QR Z-	**	**	*	ELECTRONIC SURVEILLANCE MEASURES
1.X.2.1.1.16.14.3	S	*	A	*	MF QR X-	**	**	*	PHOTOGRAPHIC
1.X.2.1.1.16.15	S	*	A	*	MF QS --	**	**	*	ANTI-SUBMARINE WARFARE (ASW)
1.X.2.1.1.16.16	S	*	A	*	MF QT --	**	**	*	TRAINER
1.X.2.1.1.16.17	S	*	A	*	MF QU --	**	**	*	UTILITY
1.X.2.1.1.16.18	S	*	A	*	MF QY --	**	**	*	COMMUNICATIONS (C3I)
1.X.2.1.1.16.19	S	*	A	*	MF QO --	**	**	*	MEDEVAC

DESCRIPTION	HIERARCHY	F R A M E	UNKNOWN/ UNKNOWN	UNKNOWN/ FRIEND	UNKNOWN/ NEUTRAL	UNKNOWN/ HOSTILE
			SYM-ID	SYM-ID	SYM-ID	SYM-ID
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) ATTACK	1.X.2.1.1.16.1	F				
			SUAPMFQA _*****	SFAPMFQA- _*****	SNAPMFQA _*****	SHAPMFQA- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) BOMBER	1.X.2.1.1.16.2	F				
			SUAPMFQB _*****	SFAPMFQB- _*****	SNAPMFQB _*****	SHAPMFQB- _*****













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			SYM-ID	SYM-ID	SYM-ID	SYM-ID
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) CARGO	1.X.2.1.1.16.3	F				
			SUAPMFQC- _*****	SFAPMFQC- _*****	SNAPMFQC _*****	SHAPMFQC- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) AIRBORNE COMMAND POST	1.X.2.1.1.16.4	F				
			SUAPMFQD _*****	SFAPMFQD- _*****	SNAPMFQD _*****	SHAPMFQD- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) FIGHTER	1.X.2.1.1.16.5	F				
			SUAPMFQF- _*****	SFAPMFQF- _*****	SNAPMFQF _*****	SHAPMFQF- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) SEARCH & RESCUE (CSAR)	1.X.2.1.1.16.6	F				
			SUAPMFQH _*****	SFAPMFQH- _*****	SNAPMFQH _*****	SHAPMFQH- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) ELECTRONIC COUNTERMEASURES (JAMMER)	1.X.2.1.1.16.7	F				
			SUAPMFQJ- _*****	SFAPMFQJ-- *****	SNAPMFQJ- _*****	SHAPMFQJ-- *****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) TANKER	1.X.2.1.1.16.8	F				
			SUAPMFQK _*****	SFAPMFQK- _*****	SNAPMFQK _*****	SHAPMFQK- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) VSTOL	1.X.2.1.1.16.9	F				
			SUAPMFQL- _*****	SFAPMFQL- _*****	SNAPMFQL _*****	SHAPMFQL- _*****

Attachment
MIL98-05 ID Codes

DESCRIPTION	HIERARCHY	F R A M E	UNKNOWN/ UNKNOWN	UNKNOWN/ FRIEND	UNKNOWN/ NEUTRAL	UNKNOWN/ HOSTILE
			SYM-ID	SYM-ID	SYM-ID	SYM-ID
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) SPECIAL OPERATIONS FORCES (SOF)	1.X.2.1.1.16.10	F				
			SUAPMFQM __*****	SFAPMFQM __*****	SNAPMFQ M_*****	SHAPMFQM __*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) MINE COUNTERMEASURES	1.X.2.1.1.16.11	F				
			SUAPMFQI- _*****	SFAPMFQI-- *****	SNAPMFQI- _*****	SHAPMFQI-- *****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) ANTI-SURFACE WARFARE (ASUW)	1.X.2.1.1.16.12	F				
			SUAPMFQN __*****	SFAPMFQN- _*****	SNAPMFQN __*****	SHAPMFQN- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) PATROL	1.X.2.1.1.16.13	F				
			SUAPMFQP- _*****	SFAPMFQP- _*****	SNAPMFQP __*****	SHAPMFQP- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) RECONNAISSANCE	1.X.2.1.1.16.14	F				
			SUAPMFQR __*****	SFAPMFQR- _*****	SNAPMFQR __*****	SHAPMFQR- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) RECONNAISSANCE AIRBORNE EARLY WARNING (AEW)	1.X.2.1.1.16.14.1	F				
			SUAPMFQR W_*****	SFAPMFQR W_*****	SNAPMFQR W_*****	SHAPMFQR W_*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) RECONNAISSANCE ELECTRONIC SURVEILLANCE MEASURES	1.X.2.1.1.16.14.2	F				
			SUAPMFQR Z_*****	SFAPMFQR Z_*****	SNAPMFQR Z_*****	SHAPMFQR Z_*****

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DESCRIPTION	HIERARCHY	F R A M E	UNKNOWN/ UNKNOWN	UNKNOWN/ FRIEND	UNKNOWN/ NEUTRAL	UNKNOWN/ HOSTILE
			SYM-ID	SYM-ID	SYM-ID	SYM-ID
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) RECONNAISSANCE PHOTOGRAPHIC	1.X.2.1.1.16.14.3	F				
			SUAPMFQR X-*****	SFAPMFQR X-*****	SNAPMFQR X-*****	SHAPMFQR X-*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) ANTI-SUBMARINE WARFARE (ASW)	1.X.2.1.1.16.15	F				
			SUAPMFQS- _*****	SFAPMFQS- _*****	SNAPMFQS _*****	SHAPMFQS- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) TRAINER	1.X.2.1.1.16.16	F				
			SUAPMFQT- _*****	SFAPMFQT- _*****	SNAPMFQT _*****	SHAPMFQT- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) UTILITY	1.X.2.1.1.16.17	F				
			SUAPMFQU _*****	SFAPMFQU- _*****	SNAPMFQU _*****	SHAPMFQU- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) COMMUNICATIONS (C3I)	1.X.2.1.1.16.18	F				
			SUAPMFQY _*****	SFAPMFQY- _*****	SNAPMFQY _*****	SHAPMFQY- _*****
AIR TRACK MILITARY FIXED WING DRONE (RPV/UAV) MEDEVAC	1.X.2.1.1.16.19	F				
			SUAPMFQO _*****	SFAPMFQO- _*****	SNAPMFQO _*****	SHAPMFQO- _*****